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**John R Graef, Lingju Kong, Qingkai Kong and Min Wang\***, Department of Mathematics, Rowan University, Glassboro, NJ 08028. *The existence of positive solutions of a fractional boundary value problem.*

In this paper, the authors study a nonlinear fractional boundary value problem. A method to construct the associated Green's function as a series of functions is presented. Criteria for the existence and uniqueness of positive solutions are then established based on it. (Received September 12, 2016)